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**Index to Recent Literature Relating to American Botany.**

*Additions to the Catalogue of San Francisco Plants.* Katharine Brandegee (Zoë, iii. 49, 50).

Notes on twenty species additional to the list published last year.

*American Species of the Genus Anemone and the Genera which have been referred to it.* N. L. Britton. (Annals N. Y. Acad. Sci. vi. 215-238; Contrib. Herb. Col. Coll. No. 23).

The six genera *Pulsatilla*, *Anemone*, *Hepatica*, *Capethia*, *Barneoudia* and *Syndesmon* (*Anemonella*), included by recent authors in *Anemone* are maintained as distinct. *A. patens*, var. *Nuttalliana*, A. Gray, is taken up under the name *Pulsatilla hirsutissima* (Pursh); *Anemone decapetala*, Ard. (1764) is *A. heterophylla*, Nutt. (1838); *A. sphenophylla*, Poepp., is the southwestern Rocky Mountain plant hitherto referred to *A. decapetala*, L.; *A. Tetonensis*, Porter, is a new species from Idaho; *A. Lyallii*, from the Northwest, *A. Peruviana*, from Peru, and *A. Hemsleyi*, from Mexico, are also described as new; *A. nudicaulis*, A. Gray, from Lake Superior, proves to be *Ranunculus Lapponicus*, L. *Capethia* (anagram of *Hepatica*) is the generic name proposed for two plants of the higher Andes. *Barneoudia Balliana* is a new species from the Argentine Republic.

*Archegonium and Apical Growth of the Stem in *Tsuga Canadensis* and *Pinus sylvestris*—On the.* D. M. Mottier (Bot. Gaz. xvii. 141-143; one plate).

*Asclepias stenophylla and Acerates auriculata—The Identity of.* J. M. Holzinger. (Bot. Gaz. xvii. 160).

A supplementary note in which Mr. Holzinger corrects his mistake of taking up the name *Asclepias auriculata* for this species, there being a previously published *A. auriculata*, Kunth. But is it not more an *Acerates* than an *Asclepias*? N. L. B. *Ascyrum Crux-Andreæ.* C. S. Sargent. (Gard. & For. v. 256, f. 49).

*Beiträge zur Kenntniss der Gattung *Tropeolum*.* F. Buchenau.  
(Engler's Bot. Jahresb. xv. 180-259).

Herr Buchenau recognizes forty-four species of this genus distributed from Central America to Chili, several of them here first described.

*Communicability of Peach Yellows and Peach Rosette—Additional Evidence on the.* Erwin F. Smith. (U. S. Depart. Agric. Bull. No. 1. 1891, illustrated).

*Cross-Breeding and Hybridizing, with a Brief Bibliography of the Subject.* L. H. Bailey. (The Rural Library, Vol. i. No. 6, pp. 44).

*Cuphea viscosissima—Ueber die Epidermis der Samen von.* C. Correns. (Ber. Deutsch. Bot. Gesell. x. 143-152, one plate).

*Current Methods in Botanical Instruction.* Conway Macmillan. (Pamph. pp. 8).

*Flora Brasiliensis. Fasciculus CXI., Malvaceæ, Part II.*

This completes Vol. xiii., Part III. The genera *Malachra*, *Urera*, *Pavonia*, *Gæthea*, *Malvaviscus*, *Hibiscus*, *Kosteletzky*, *Cienfugosia* and *Gossypium* are treated by Herr M. Gürke, and the geographical distribution and economic aspects of the Malvaceæ, by Dr. C. Schumann. The fascicle is illustrated by thirty-two plates.

*Flora of Central Arizona.* J. W. Toumey. (Bot. Gaz. xvii. 162-164.

*Forms of Trees as Determined by Climatic Influences.* Gustav Eisen. (Zoë, iii. 1-12).

*Fungous Diseases of the Celery—Some.* (New Jersey Ex. Sta. Bull. April, 1892).

Illustrations are given by Dr. Halsted of *Cercospora Apii*, *Phyllosticta Apii*, *Septoria Petroselini*, var. *Apii*, and *Puccinia bullata*.

*Germination of the Teleutospores of *Ravenelia cassiæcola*.* B. M. Duggar. (Bot. Gaz. xvii. 144-148; two plates).

*Laboulbeniaceæ—Further Additions to the North American Species of.* Roland Thaxter. (Proc. Amer. Acad. Arts & Sciences xxvii. 29-45; reprint).

Dr. Thaxter has detected thirty species of this order additional to those recorded in his former paper, making in all forty-nine North American species. *Ceratomyces*, *Corethromyces* and *Acanthomyces* are new genera, and many new species are described in *Heimatomyces* and *Laboulbenia*.

*Lilium Grayi*. J. G. Baker. (Curt. Bot. Mag. tab. 7,234).

A description of and note on the lily first gathered by Dr. Gray on Roan Mountain in 1840.

*List of Species of the Genera Scirpus and Rynchospora occurring in North America*. N. L. Britton. (Trans. N. Y. Acad. Sci. xi. 74-93: Contrib. Herb. Col. Coll. No. 26).

Thirty-six species of *Scirpus* are enumerated. *S. Peckii* from northern New York is described as distinct from its relatives, *S. polyphyllus* and *S. sylvaticus*; *S. microcarpus*, Presl., is maintained as a species; *S. Mexicanus*, Clarke, is *S. cyperoides*, Hemsl. (1885), not Sprengel (1825); *S. Potosina*, Clarke, is a new species from Mexico (Pringle 3,175); *S. Hallii* and *S. Smithii* are maintained as species; *S. Americanus*, Pers. (1805) antedates *S. pungens*, Vahl. (1806), and a var. *longispicatus* of it from Colorado and New Mexico is described as new; *S. cylindricus* (Torr.) antedates *S. macranthus*, Bœckl. (1858), *S. leptolepis*, Chapm. (1860) and *S. Canbyi*, A. Gray (1864); *S. Californicus* (C. A. Meyer), antedates *S. Tatora*, Kunth.

Sixty species of *Rynchospora* are recognized. *R. Tracyi* is *Ceratoschænus capitatus*, Chapm., not *R. capitata*, R. & S.; and several new varieties are described.

*Loco Weeds*. Alice Eastwood. (Zoë, iii. 53-58).

*Manual of the Phanerogams and Pteridophytes of Western Texas Gamopetalæ*. John M. Coulter. (Contrib. U. S. Nat. Herb. ii., Part 2).

This is the second part of Professor Coulter's useful flora of western Texas. *Perityle Vaseyi* is figured. The following corrections are made in his previously published account of Mr. Nealey's collections: *Aplopappus Texanus*, Coulter, proves to be *Haxloesthes Greggii*, A. Gray, and *Viguiera longipes*, Coulter, is *Zexmenia hispida*, A. Gray, which is also figured; *Ipomœa Nealei* Coulter is *Antirrhinum maurandoides*, A. Gray, and *I. Tex-*

*ana* Coulter is the South American *I. fistulosa*, Mart., escaped from cultivation. A considerable number of plants hitherto unknown north of the Mexican border are here recorded as Texan. *Mariposa County as a Botanical District.* J. W. Congdon (Zoë, iii. 25-43).

A very interesting account of the general flora features of Mariposa County, California, with especial reference to geographic distribution.

*Notes on Liliaceæ—II.* Carl Purdy (Zoë, iii. 43, 44).

*Marsilia vestita—On the Prothallium and Embryo of.* Douglas Houghton Campbell. (Extract Proc. Cal. Acad. Sci. Ser. ii. Vol. iii.).

*Metaspermæ—The Embryo-sac of the.* Conway Macmillan. (Bot. Gaz. xvii. 161, 162).

*New or Noteworthy Species.* Edward L. Greene. (Pittonia, ii. 222).

*Lotus Biolettii, Trifolium fucatum*, Lindl., *T. flavulum*, *T. virescens*, *T. Gambelii*, Nutt., *Alyssum Americanum*, *Streptanthus Biolettii*, *S. pulchellus*, *Ranunculus Biolettii*, *Bolclia humilis*, *Erigeron leptophyllus*, *E. hyperboreus*, *E. Turneri*, *Callichroa nutans* (*Callichroa antedates Layia*); *Psacalium strictum*=*Prenanthes stricta*, Greene (1889)=*Luina Piperi*, Robinson (1891); *Silene purpureata*, *Cerastium grande*, *Tissa rubra*, var. *perennans*; *Brevoortia venusta*, *Fritillaria recurva*, var. *coccinea*; *Plagiobothrys Californicus*, *Allocarya stricta*, *Cryptantha Kelseyana*, *Cryptantha Bartolomæi* and *Collinsia arvensis* are described as new.

*Notes on Carex.—XVI.* L. H. Bailey. (Bot. Gaz. xvii. 148-153).

Notes on new localities for a number of rarer species and the following described as new: *Carex herbariorum*, *C. Pringlei*, *C. xerantica*, *C. Montanensis*, *C. bella* and *C. varia*, var. *australis*. *Notes on the Flora of Staten Island.* Arthur Hollick. (Proc. Nat. Sci. Assn. Staten Island May 14th, 1892).

Record of additions to the lists of plants and of new localities for some rare species.

*Novitiæ Peruvianæ.* A. Zahlbruckner. (Ann. K. K. Naturhist. Hofmuseums Wien, vii. Heft 1 and 2; reprint, pp. 10).

New species from Peru are described in the genera *Viburnum*, *Psychotria*, *Rudgea*, *Myrsine*, *Conomorpha*, *Styrax*, *Nathusia*, *Echites*, *Solanum*, *Athenaea*, *Columnea*, *Amphilophium* and *Mesophænum*.

*Officinelle Iridaceen Brasiliens.* Theodor Peckolt. (Phar. Rundschau x. 132).

The medicinal properties of *Cipura paludosa*, *Alophia Sellowiana*, *Cypella coerulea*, *C. Northiana*, *Polia Sonariensis*, *Lansbergia cathartica*, *L. purgans*, *L. Caracasana* and *Sisyrinchium galaxoides* are noted.

*Oncidium Gravesianum.* R. A. Rolfe. (Gardn. Chronicle xi. 650).

A description with illustration of this new orchid from Brazil.

*Opuntia Rafinesquii.* (Meehan's Month. ii. 81, 82, colored plate).

*Palæontology of the Cretaceous Formation on Staten Island.*

Arthur Hollick. (Trans. N. Y. Acad. Sci. xi. 96-104, 3 plates Contrib. Geol. Depart. Col. Coll. No. 2).

A preliminary note on the Cretaceous plants and mollusks hitherto found on Staten Island, with a description of the strata and mode of occurrence. The following plants are figured: *Protæoides daphnogenoides*, *Laurus plutonia*, *Sapindus Morisoni*, *Thinfeldia Lesquereuxiana*, *Eucalyptus Geinitzii*, *Liriodendron simplex*, *L. primævum*, *Rhamnus Pfaffiana*, *Ficus atavina*, *Dalbergia hyperborea*, *Diospyros primæva*, *Platanus Newberryana*. *Parastic Fungi.* Adolph Lehman. (Ottawa Nat. vi. 38).

*Pennsylvania Hardwood Forests.* J. T. Rothrock. (Hardwood i. No. 8).

*Pilocarpus pennatifolius.* J. S. Hooker. (Curt. Bot. Mag. tab. 7235).

*Plantæ Glaziovianæ novæ vel minus cognitæ.* P. Taubert. (Engler's Bot. Jahrb. xv. Beiblatt No. 34).

New species from Brazil are described in the genera *Dactylæna*, *Paypayrola*, *Galipea*, *Cusparia*, *Metrodorea*, *Hortia*, *Dulacia*, *Licania*, *Hirtella*, *Combretum*, *Fuchsia*, *Abatia*, *Auxemma* and

*Diosevrea*. Herr. P. Hennings describes new species of fungi in the genera *Uromyces*, *Puccinia*, *Hymenochæte*, *Cladoderis*, *Poly-porus*, *Phyllachora* and *Helotium*.

*Practical Studies in Biology. I. The Potato*. H. L. Osborn. (Amer. Month. Micros. Journ. xiii. 85-88; 105-110; illustrated).

*Revision of the American Species of Rumex Occurring North of Mexico*. Wm. Trelease. (3rd Ann. Rep. Missouri Bot. Gard. 74-98; plates 13-33; reprint).

Prof. Trelease recognizes twenty species of the genus within the area. *R. paucifolius*, Nutt. becomes *R. Geyeri* (Meisn.) the older name; *R. Arizonicus*, Britton, is referred to *R. hymenosepalus*, Torr. in which reduction we have no doubt he is in error, and all the North American plant which has gone as *R. maritimus*, is referred to *R. persicarioides*, L. The paper is illustrated by twenty plates, and will greatly facilitate the determination of these plants.

N. L. B.

*Restrepia striata*. J. T. Hooker. (Curt. Bot. Mag. xlviii. tab. 7233).

*Sereno Watson*. John M. Coulter. (Bot. Gaz. xvii. 137-141, with portrait and interior view of the herbarium of Harvard University).

*Spiræaceæ—On Certain*. Edward L. Greene. (Pittonia, ii. 219-222).

*Lutkea Hendersonii*, from the Olympic Mts., Washington, is characterized as new. Professor Greene maintains *Spiræa corymbosa*, Raf., *S. lucida*, Dougl. and *S. pyramidata*, n. sp., all as distinct from the Siberian *S. betulæfolia*, Pall., to which he refers as American only a specimen from Alaska.

*Systematische Stellung der Gattung Thorea*, Bory. Fr. Schmitz. (Ber. Deutsch. Bot. Gesell. x. 115-143).

*Tertiary Fossil Plants from Potosi, Bolivia*. N. L. Britton. (Trans. Amer. Inst. Mining Engineer, Plattsburgh, Meeting, June, 1892; Contrib. Herb. Col. Coll. No. 27, Reprint, pp. 10; 79 figures).

This collection of fossil plants was made by Drs. A. F. Wendt and F. A. Canfield, engineers of the famous silver mines of Potosi. The following species are described as new: *Porliera tertaria*, *Amicia antiqua*, *Cassia Wendtii*, *Escallonia Wendtii*, *Terminalia Wendtii*, *Cuphea antiqua*, *Passiflora (?) Canfieldi*, *Myrica Potosina*, *M. Engelhardtii* and *M. Wendtii*.

*Tovariaceen—Zur Kenntniss der.* G. de Lagerheim. (Ber. Deutsch. Bot. Gesell. x. 163-170).

A discussion of the systematic position of the genus *Tovaria*, R. and P.

*Your Weeds and Your Neighbor's.* C. F. Millspaugh. (Bull. W. Va. Agric. Exper. Sta.)

Dr. Millspaugh, as botanist of the West Virginia Experiment Station, is making a thorough study of the weeds of his State, the results of which are appearing in a series of bulletins under the above title. Part II deals with the distribution of weeds, their bad points, uses for fodder, and chemical weed exterminators.

### Proceedings of the Club.

TUESDAY EVENING, MAY 10th, 1892.

The President in the chair and forty-seven persons present.

Mrs. Britton gave the announced paper of the evening on "Mosses, their Structure and Classification," illustrated by living and herbarium specimens and lantern slides.

WEDNESDAY EVENING, MAY 25, 1892.

Vice-President Mr. Thos. Hogg in the chair and twenty persons present.

The Secretary announced the death since the last meeting of Miss Phoebe McCabe, long an active member of the Club. Miss Steele and Mrs. Britton were appointed a committee to draw suitable resolutions expressive of the sentiments of the Club.

The Editor announced the death of Dr. Edouard von Regel,